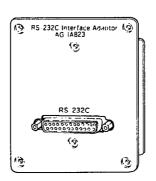
ORDER NO. VSD9403M247

Service Manual

Operating Instructions
Schematic Diagram
Circuit Board Diagram
Exploded View &
Replacement Parts List

Panasonic
RS-232C Serial Interface Adaptor

AG-1A823P



SPECIFICATIONS

ITEM	SPECIFICATION				
D	Source	4.75V to 5.25V			
Power	Consumption	MAX. 0.7W			
Operating Condition	Temperature	41°F to 104°F (5°C to 40°C)			
	Humidity	35% to 80%			
Dimensions		×3-15/16" (H)×7/8" (D) 100mm(H)×21mm(D)			
Weight	Approx. 0.120kg (Approx. 4.3oz.)				

Weight and dimensions shown are approximate. Specifications are subject to change without notice.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advice non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service manual by anyone else could result in serious injury or

INTRODUCTION

This Service Manual contains all the technical information which will allow service personnel to understand and service the Panasonic RS-232C Serial Interface Adaptor model AG-IA 8 2 3 P.

CONTENTS

SPECIFICATIONS	over
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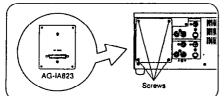
OPERATING INSTRUCTIONS

By installing this interface adaptor in an AG-MD830 VTR, the VTR can be controlled by a personal computer.

Installation

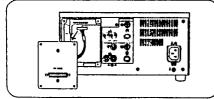
Remove the plate installed on the VTR.

Remove the four screws indicated in the figure.
Install the interface adaptor using the removed screws.



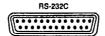
Precaution

When installing the adaptor, be sure to connect the VTR cable into the interface adaptor, as shown in the figure.



Connector signals (25P)

■ RS-232C Input/Output Connector
Connect the input from a personal computer (or RS-232C output from another VTR) to the RS-232C input connector. Use RS-232C straight (normal) cable.



Pin No.	Pin No. Signal name		Signal name		
1	GND	6	*1		
2	TXD	7	GND		
3	RXD	8-19	-		
4	Shorted to 5	20			
5	Shorted to 4	21-25	_		

Positive voltage output after communication enable status,

Note:

The screws installed in this product are screws with inch threads. However, please bear in mind that the screws for the D-SUB connectors provided in the same package are screws with metric threads (M2.6 type).

Description of DIP switches

These are used to set the communication mode and band rate



■ Communication mode

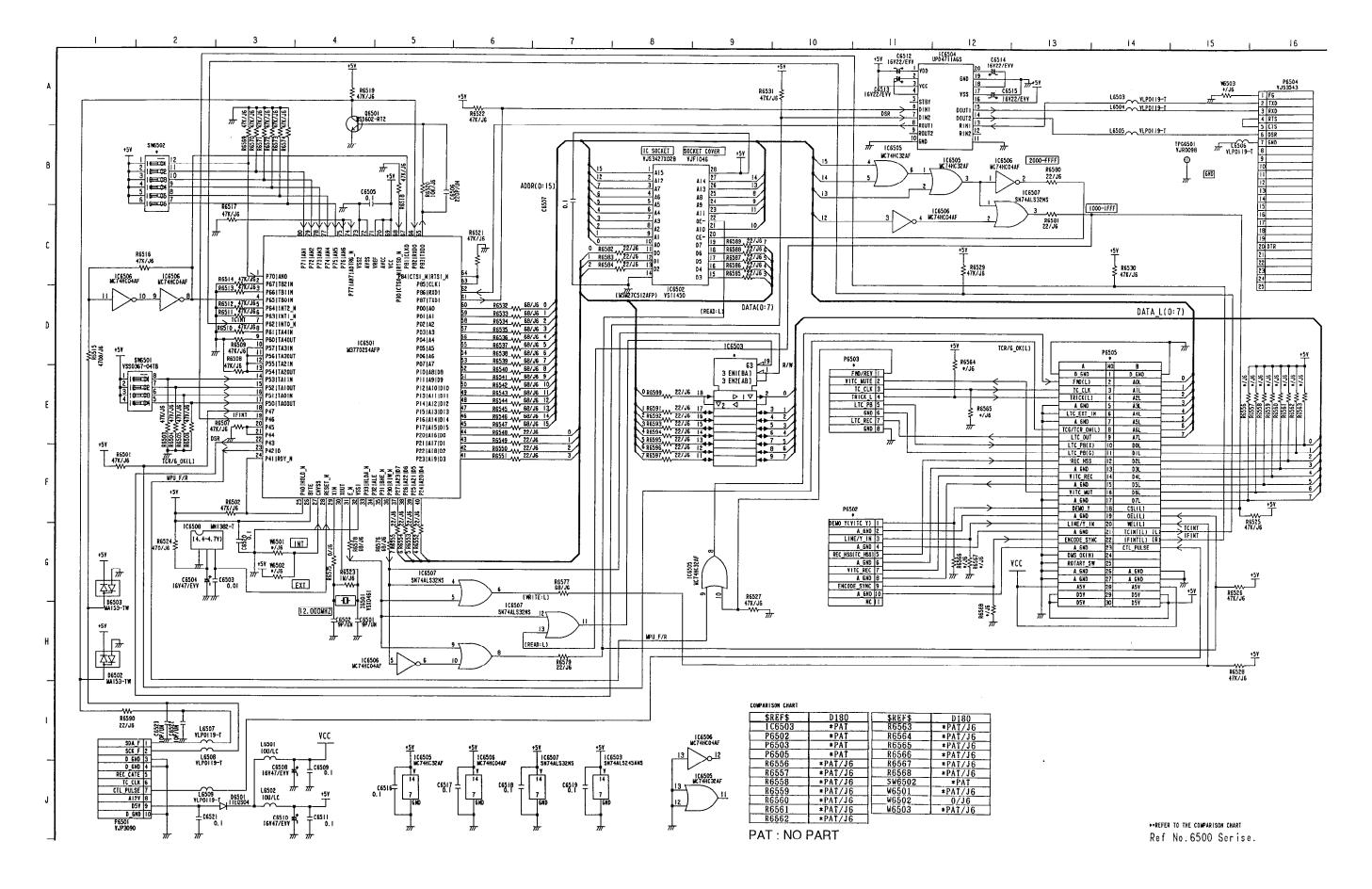
	NORMAL	AG-IA232TC mode
SW1	OFF	ON
■ Baud ra	le	

 NORMAL
 Forced 19200

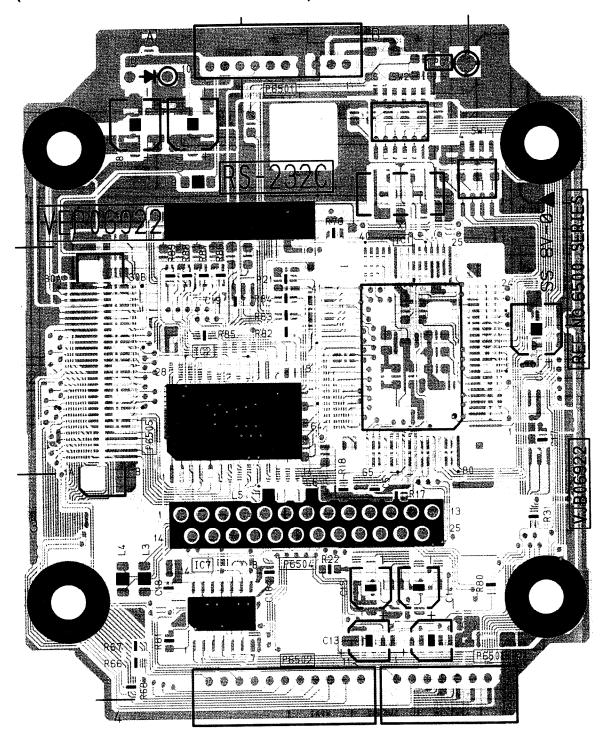
 SW3
 OFF
 ON

Forced 19200: The baud rate is forcibly set to 19200 bps regardless of the menu setting.

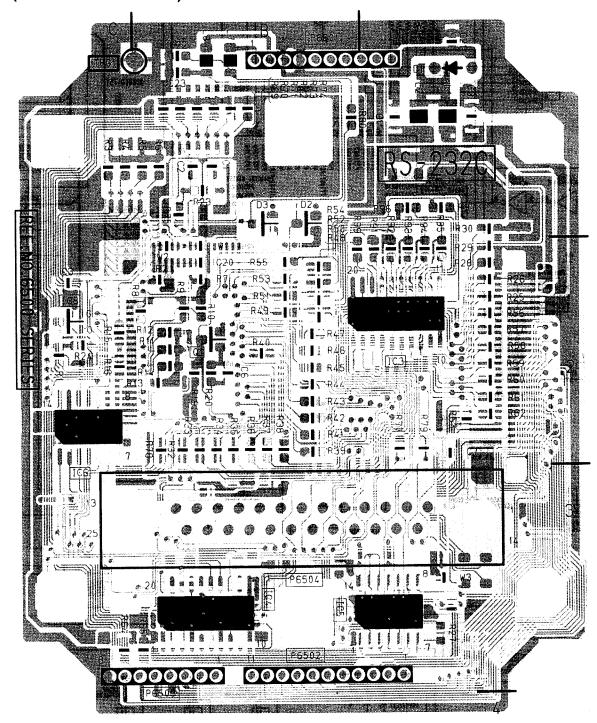
SCHEMATIC DIAGRAM



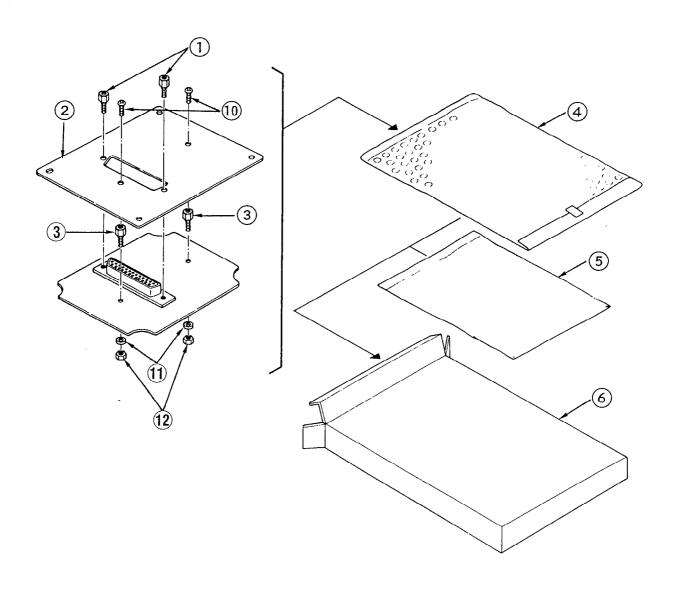
(COMPONENT SIDE)



(FOIL SIDE)



EXPLODED VIEW



MECHANICAL REPLACEMENT PARTS LIST

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Ren
1	VHN0198	BOSS	2						
2	VMP4249	PLATE	1						
3	VHN0199	BOSS	2					П	
4	VPF0462	CUSHION BAG	1						
5	VQT5752	OPERATING INSTRUCTION	1						
6	VPG4770	PACKING CASE	1						
					1				
10	XSB26+4FZ	SCREW	2						· · · · ·
11	XWA26B	WASHER	2						
12	XNG26C	NUT	2						

ELECTRICAL REPLACEMENT PARTS LIST

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP06922A	P.C.BOARD W/COMPONENT	1	(RTL) <r></r>	 				
		RS-232C			SW6501	VSS0367-04TB	SWITCH	1	∢>
					W6502	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
					<u> </u>				
			<u> </u>		 				
								<u></u>	
	WED060004	D. O. DOLDO.	!		X6501	VSX0461	CRYSTAL OSCILLATOR	1	∢>
	VEP06922A	P.C.BOARD W/COMPONENT RS-232C			 	-		_	
 	 	K3-232C	<u> </u>		1}				
	+				11 -	- 	MISCELLANEOUS	-	
			-		11	VJF1046	IC SOCKET COVER	1	
C6501,02	ECUM1H090DCN	C.CAPACITOR CH 50V 90P	2		1 }────────────────────────────────────	101 1010	TO SOCKET WHEN	Ť	
C6503	ECUMIH103ZFN	C.CAPACITOR CH 50V 0.01U	1		·			 —	
C6504	ECEV1CV470S	E.CAPACITOR 16V 47U	1	***************************************	1				
C6505	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1		i l				
C6506	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1		11	†	·		-
C6507	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1		1	1		-	
C6508	ECEV1CV470S	E.CAPACITOR 16V 47U	1		1				
C6509	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1		1				
C6510	ECEV1CV470S	E.CAPACITOR 16V 47U	1					L	
C6511	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1][
C6512-15	ECEV1CV220S	E.CAPACITOR 16V 22U	4]				
C6516-21	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	6						
C6522,23	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	2		HT				
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					[]			<u> </u>	
	L				11	1			
06501	11EQS04	DIODE	1	<r></r>	11	ļ		<u> </u>	
D6502,03	MA153	DIODE	1	<r></r>	 	1		_	
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				* ***	 				
100501	110770004450	70	<u> </u>		{				
IC6501	M37702S4AFP	IC	1	<r></r>	l I				
IC6502 IC6504	VSI1450 UPD4711AGS	IC	1	<r></r>		ļ			
1C6504 1C6505	MC74HC32AF	IC IC	1	<r> <r></r></r>	l	-		_	
1C6505	MC74HC32AF	IC	1	<r></r>		-			
1C6507	SN74ALS32NS	IC	1	<r></r>	{}	-			
IC6508	MN1382-T	IC	1	<r></r>	{}	+			
IC6502S	VJS3427X028	IC	1	<r></r>	∤ }			-	
1003023	10334277020	10		\n\r	 }	1		-	
						+			
					 				
L6501,02	VLQ0319K100	COIL 10UH	1		 	+			
L6503-09	VLP0119	COIL	7			<u> </u>		\vdash	
	12.0115				{ 	 			
	 		\vdash		{ 	+			
	ļ				11	 			
6501	VJP3090	CONNECTOR (MALE)	1		[1			
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ו 4טכסי	VJS3543		1						
70504		CONNECTOR (FEMALE)	_						
70504			_						
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			_	<r></r>					
	VJS3543	CONNECTOR (FEMALE)	1	<r></r>					
	VJS3543	CONNECTOR (FEMALE)	1	<r></r>					
	VJS3543	CONNECTOR (FEMALE)	1	<r></r>					
Q6501	VJS3543 MSD602-R ERJ6GEYJ473	CONNECTOR (FEMALE) TRANSISTOR M.RESISTOR CH 1/10W 47K	1	<r></r>					
16501 16501-19 16520	MSD602-R ERJ6GEYJ473 ERJ6GEYJ103	CONNECTOR (FEMALE) TRANSISTOR M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 10K	1	<r></r>					
6501 6501-19 6520 6521,22	WSD602-R ERJ6GEYJ473 ERJ6GEYJ103 ERJ6GEYJ473	CONNECTOR (FEMALE) TRANSISTOR M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 10K M.RESISTOR CH 1/10W 47K	1 19 1 1	<r></r>					
16501 16501-19 16520 16521,22	MSD602-R ERJ6GEYJ473 ERJ6GEYJ103 ERJ6GEYJ473 ERJ6GEYJ105	CONNECTOR (FEMALE) TRANSISTOR M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 10K M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 1M	1 19 1	<r></r>					
R6501-19 R6520 R6521,22 R6523 R6524	MSD602-R ERJ6GEYJ473 ERJ6GEYJ103 ERJ6GEYJ473 ERJ6GEYJ105 ERJ6GEYJ471	TRANSISTOR M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 10K M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 470	191111111	<r></r>					
R6501 -19 R6501 -19 R6520 -26523 R6524 R6525-31	WSD602-R ERJ6GEYJ473 ERJ6GEYJ473 ERJ6GEYJ105 ERJ6GEYJ471 ERJ6GEYJ473	TRANSISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 470 M.RESISTOR CH 1/10W 476	1911111111	<r></r>					
26501 265501-19 265520 26521,22 26523 26524 26525-31 26532-47	MSD602-R ERJ6GEYJ473 ERJ6GEYJ103 ERJ6GEYJ105 ERJ6GEYJ471 ERJ6GEYJ473 ERJ6GEYJ473 ERJ6GEYJ473	CONNECTOR (FEMALE) TRANSISTOR M.RESISTOR CH 1/10W 10K M.RESISTOR CH 1/10W 10K M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 47C M.RESISTOR CH 1/10W 47C M.RESISTOR CH 1/10W 47C M.RESISTOR CH 1/10W 47C	1 19 11 1 1 1 16	<r></r>					
R6501-19 R6520 R6521,22 R6523 R6524 R6525-31 R6532-47 R6548-55	MSD602-R ERJ6GEYJ473 ERJ6GEYJ103 ERJ6GEYJ103 ERJ6GEYJ473 ERJ6GEYJ471 ERJ6GEYJ471 ERJ6GEYJ473 ERJ6GEYJ472	CONNECTOR (FEMALE) TRANSISTOR M.RESISTOR CH 1/10W 10K M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 470 M.RESISTOR CH 1/10W 470 M.RESISTOR CH 1/10W 68 M.RESISTOR CH 1/10W 22	1 19 1 1 1 1 1 16 8	<r></r>					
16501 16501-19 16520 16521,22 16523 16524 16525-31 16532-47 16548-55 16569-74	MSD602-R ERJ6GEYJ473 ERJ6GEYJ103 ERJ6GEYJ473 ERJ6GEYJ473 ERJ6GEYJ471 ERJ6GEYJ477 ERJ6GEYJ472 ERJ6GEYJ473 ERJ6GEYJ473	CONNECTOR (FEMALE) TRANSISTOR M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 10K M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 470 M.RESISTOR CH 1/10W 470 M.RESISTOR CH 1/10W 68 M.RESISTOR CH 1/10W 68 M.RESISTOR CH 1/10W 22 M.RESISTOR CH 1/10W 47K	1 19 11 1 1 1 16	<r></r>					
6501 6501-19 6520 6521,22 6523 6524 6525-31 6524-7 6548-55 6569-74 6575	MSD602-R ERJ6GEYJ473 ERJ6GEYJ103 ERJ6GEYJ105 ERJ6GEYJ471 ERJ6GEYJ473 ERJ6GEYJ473 ERJ6GEYJ473 ERJ6GEYJ680 ERJ6GEYJ473 ERJ6GEYJ680	CONNECTOR (FEMALE) TRANSISTOR M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 10K M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 470 M.RESISTOR CH 1/10W 470 M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 68 M.RESISTOR CH 1/10W 22 M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 0	1 19 1 1 1 1 1 16 8 6 1	<r></r>					
6501 6501-19 6520 6521, 22 6523 6524 6525-31 6532-47 6548-55 6559-74 6575 6576-78	MSD602-R ERJ6GEYJ473 ERJ6GEYJ103 ERJ6GEYJ105 ERJ6GEYJ471 ERJ6GEYJ473 ERJ6GEYJ473 ERJ6GEYJ200 ERJ6GEYJ220 ERJ6GEYJ220 ERJ6GEYJ200 ERJ6GEYJ680	CONNECTOR (FEMALE) TRANSISTOR M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 470 M.RESISTOR CH 1/10W 47C M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 68 M.RESISTOR CH 1/10W 68	1 19 1 1 1 1 1 16 8 6 1 3	<r></r>					
6501 - 19 6520 6521,22 6523 6525-31 6532-47 6548-55 6569-74	MSD602-R ERJ6GEYJ473 ERJ6GEYJ103 ERJ6GEYJ105 ERJ6GEYJ471 ERJ6GEYJ473 ERJ6GEYJ473 ERJ6GEYJ473 ERJ6GEYJ680 ERJ6GEYJ473 ERJ6GEYJ680	CONNECTOR (FEMALE) TRANSISTOR M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 10K M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 470 M.RESISTOR CH 1/10W 470 M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 68 M.RESISTOR CH 1/10W 22 M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 0	1 19 1 1 1 1 1 16 8 6 1	<r></r>					
5501-19 5520 5521, 22 5523 5524 5525-31 5532-47 5548-55 5569-74 5576-78	MSD602-R ERJ6GEYJ473 ERJ6GEYJ103 ERJ6GEYJ105 ERJ6GEYJ471 ERJ6GEYJ473 ERJ6GEYJ473 ERJ6GEYJ200 ERJ6GEYJ220 ERJ6GEYJ220 ERJ6GEYJ200 ERJ6GEYJ680	CONNECTOR (FEMALE) TRANSISTOR M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 470 M.RESISTOR CH 1/10W 47C M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 68 M.RESISTOR CH 1/10W 68	1 19 1 1 1 1 1 16 8 6 1 3	<r></r>					

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